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Cont database. The answer from the remote database is stored 92 in the memoization store 88 for future references.

In the claims:

Cancel claim 47-51.

Amend claims 1, 2, 4, 5, 11, 14, as follows:

A4
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B3
(Amended) 1. A method of producing constructed fares that includes an arbitrary added to a published fare, said method executed in a computer system, the method comprising:
determining interior cities that appear with gateway cities in arbitraries for the airline, the arbitraries extending published fares, in order to derive prices to minor cities;
searching a database having published fares for gateway cities corresponding to the determined interior cities appearing in the arbitraries; and
applying an arbitrary corresponding to one of the interior cities to a published fare involving one of the gateway cities determined interior cities appearing in the arbitraries to produce the constructed fare.

(Amended) 2. The method of claim 1 wherein determining interior cities comprises:
accessing a hash table indexed by an airline, interior-city pair to return a list of gateway cities for which an airline has arbitraries that specify the interior city.

A5
B3
Cont (Amended) 4. The method of claim 1 wherein searching for gateway cities comprises:
accessing a hash table indexed by an airline, gateway pair to return a list of gateway cities that an airline publishes fares from the determined gateway to another gateway city.

(Amended) 5. The method of claim 1 wherein determining interior cities comprises:
accessing a first hash table indexed by an airline, interior-city pair to return a list of gateway cities for which an airline has arbitraries that specify the interior city; and wherein searching for gateway cities further comprises:

A5 cont B3 cont
accessing a second hash table indexed by an airline, gateway pair to return a second list of gateway cities that an airline publishes fares from the determined gateway to another gateway city.

A6 B3 cont
(Amended) 11. The method of claim 1, further comprising:
determining a second set of interior cities that appear with a second gateway city in the published fare for the airline;
applying an arbitrary that extends the published fare to a city from the second set of interior cities to produce a three component constructed fare.

A7 B3 cont
(Amended) 14. A method of producing a set of constructed international fares for a particular airline, the method executed in a computer system and the method comprising:
determining interior cities that appear with gateway cities in arbitraries for the particular airline;
searching for gateway cities corresponding to the determined interior cities appearing in the arbitraries; and
applying arbitraries corresponding to the determined interior cities to published fares involving the gateway cities to produce the set of constructed fares for the airline.

Please add claims 52-55, as follows:

A8 B3 cont
52. A method of producing a set of constructed international fares for an airline, the method executed in a computer system and the method comprising:
accessing a first hash table by airline interior city pair to return a list of gateway cities for which an airline has arbitraries that specify the interior city;
accessing a second hash table by airline gateway pair to return a second list of gateway cities that an airline publishes fares from to determine a gateway to another gateway city;
applying the first arbitraries from the first hash table to the published fares from the second hash table to return a list of potential constructed fares; and
determining whether a constructed fare in a list of constructed fares is a valid constructed fare and for valid ones of the potential constructed fares producing the constructed fares.

A8 cont
53. The method of claim 52 wherein the constructed fares are two component constructed fares.

B3 Contd
54. The method of claim 52 further comprising:
determining a second set of interior cities that appear as arbitraries with the second gateway cities by accessing a third hash table by airline interior city pair to return a list of gateway cities for which an airline has arbitraries that specify the interior city; and
applying the arbitraries corresponding to the determined second set of interior cities to the first set of constructed fares to produce a second set of constructed fares.

55. The method of claim 54 wherein the first set of constructed fares are two component constructed fares and the second set of constructed fares are three component constructed fares.

In the drawings:

NE A Request for Approval of Drawing Changes accompanies this response.

In the drawings, Applicant has amended FIG. 1 to show database 20a. Applicant has amended FIG. 2 to add the reference number "30", has amended FIG. 3A to label the hash tables 37a and 37b and show lists 38a and 38b. Applicant has amended FIG. 3B to show the continuation from the store process 54 to retrieving the next C3 city, has added "yes" and "no" designations after each of the decision blocks and has amended FIG. 5 to show the continuation after store steps 58a and 54 and has labeled the decision blocks with "yes" and "no" and showed where the code branches from decision block 51e back to 51a. In FIG. 5 Applicant has added designation 80 and has modified FIG. 5 to show the memorization process 84 occurring before the call fare rule process 86 as consistent with the specification. In the drawings, Applicant has amended FIG. 5 to label decision blocks with "yes" and "no" consistent with the specification.

These changes are supported in the specification and no new matter has been added.